

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62108172
PUBLICATION DATE : 19-05-87

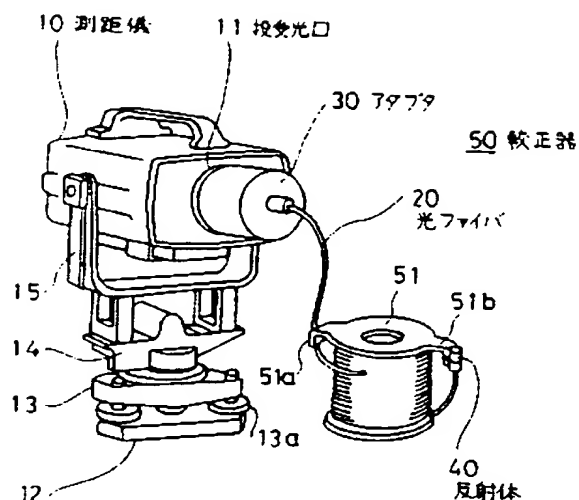
APPLICATION DATE : 07-11-85
APPLICATION NUMBER : 60249421

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : SANO YASUKAZU;

INT.CL. : G01S 7/48

TITLE : CORRECTING METHOD FOR OFFSET
ERROR OF RANGE FINDER



ABSTRACT : PURPOSE: To perform correct range finding for the range to an object to be measured which is not affected by the present weather conditions, by utilizing a calibrator using an optical fiber, whose effective optical path is known, and correcting an offset error at site.

CONSTITUTION: A calibrator 50 is composed of an optical fiber 20 of a prescribed length, adaptor 30 coupled with one end of the optical fiber 20, reflecting body 40 which is coupled with the other end of the optical fiber 20 and reflects light waves received from the optical fiber 20, etc. The calibrator 50 is used after its effective optical path L_e is precisely measured. When an offset error e_f is measured at a measuring site, the adaptor 30 is fitted to the light projecting and receiving port 11 of the range finder 10 and the offset error e_f is calculated from the difference between a measured value L_c and the effective optical path L_e . When the offset error e_f is subtracted from the measured range value D_m to an object to be measured, the correct distance D to the object is found.

COPYRIGHT: (C) JPO